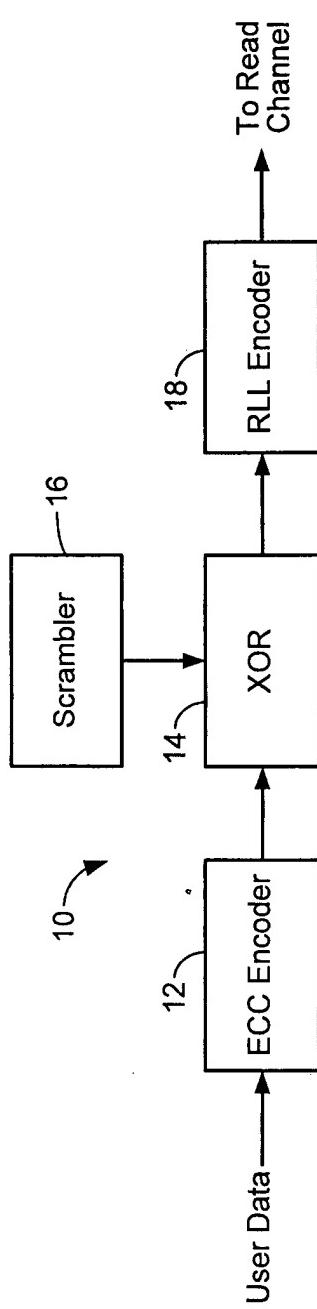


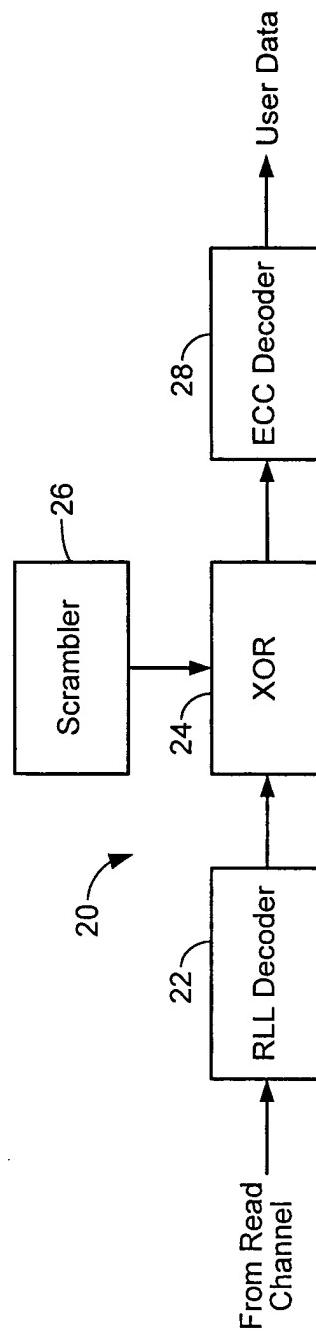
Title: METHOD AND APPARATUS FOR GENERATING A SEED SET IN A DATA DEPENDENT SELECTOR

Inventors: Yu, Zhan  
Atty. Ref.: MP0253

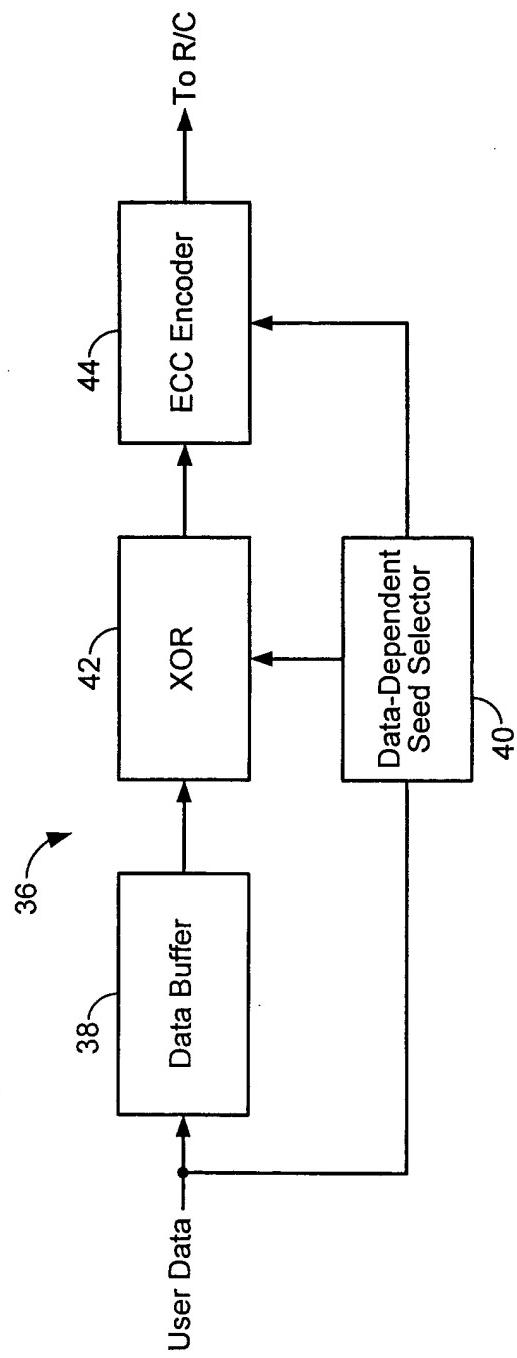
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**FIG. 1**  
Prior Art



**FIG. 2**  
Prior Art

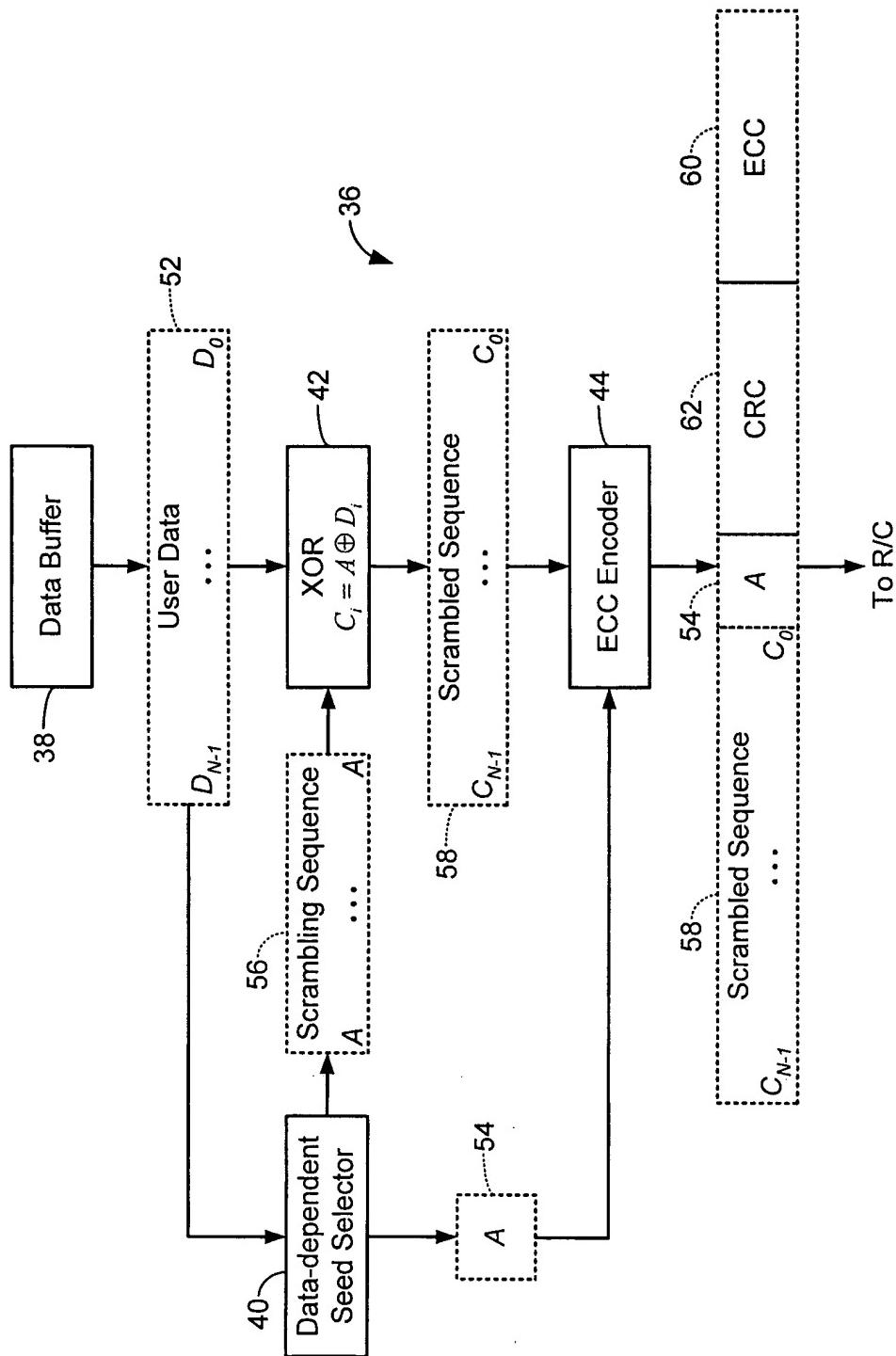


**FIG. 3**

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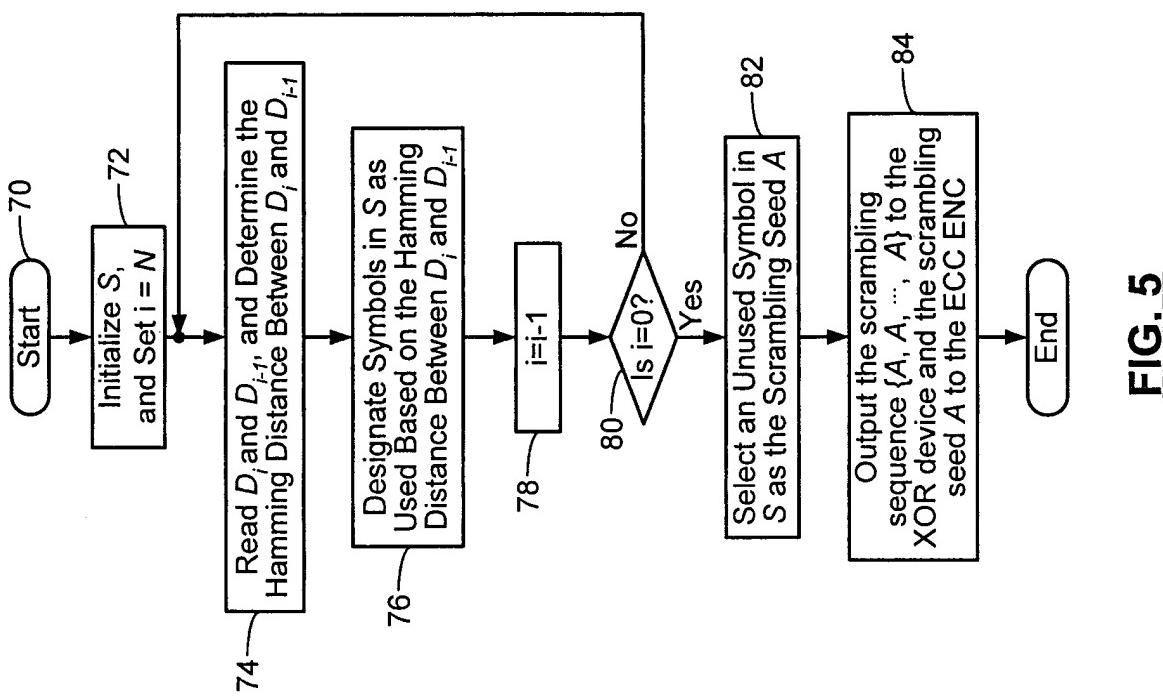


**FIG. 4**

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**FIG. 5**

Title: METHOD AND APPARATUS FOR GENERATING A SEED  
SET IN A DATA DEPENDENT SELECTOR

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Relationship	Symbols Designated as Used	Amount	Min. Hamming Distance	Min. Hamming Weight	Max. Sequence Size
$d(D_i, D_{i-1}) \geq 3$	$D_i, D_{i-1}$	2	{1,2} or {2,1}	15.0%	
$d(D_i, D_{i-1}) = 2$ (where $d(X, D_i) = d(X, D_{i-1}) = 1$ and $d(Y, D_i) = d(Y, D_{i-1}) = 1$ )	$D_i, D_{i-1}, X, Y$	4	{1,3} or {3,1}	20.0%	255
$d(D_i, D_{i-1}) = 1$	$D_i, D_{i-1}$	2	{1,2} or {2,1}	15.0%	
$D_i = D_{i-1}$	$D_i, D_{i-2}, Z$ (where $d(Z, D_i) = 1$ )	12	{2,2,1}	16.67%	

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**FIG. 6A**

Relationship	Symbols Designated as Used	Amount	Min. Hamming Distance	Min. Hamming Weight	Max. Sequence Size
$d(D_i, D_{i-1}) \geq 3$	$D_i, D_{i-1}$	2	{1,2} or {2,1}	15.0%	
$d(D_i, D_{i-1}) = 2$ (where $d(X, D_i) = d(X, D_{i-1}) = 1$ and $d(Y, D_i) = d(Y, D_{i-1}) = 1$ )	$D_i, D_{i-1}, X, Y$	4	{1,3} or {3,1}	20.0%	312
$d(D_i, D_{i-1}) = 1$	$D_i, D_{i-1}$	2	{1,2} or {2,1}	15.0%	
$D_i = D_{i-1}$	$D_i, D_{i-2}, D_{i-3}, Z$ (where $d(Z, D_i) = 1$ )	13	{2,2,1,1}	15.0%	

94 →

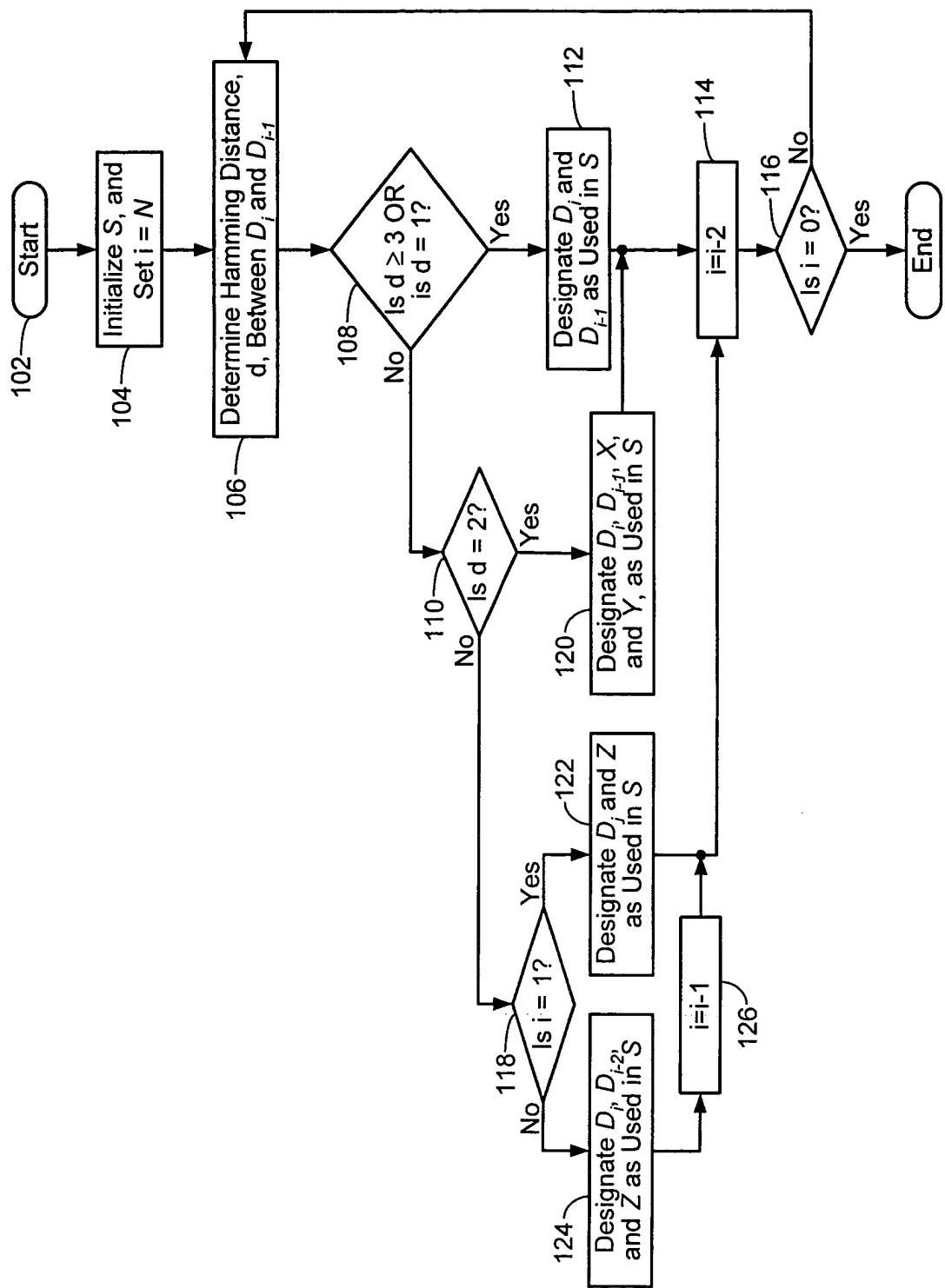
**FIG. 6B**

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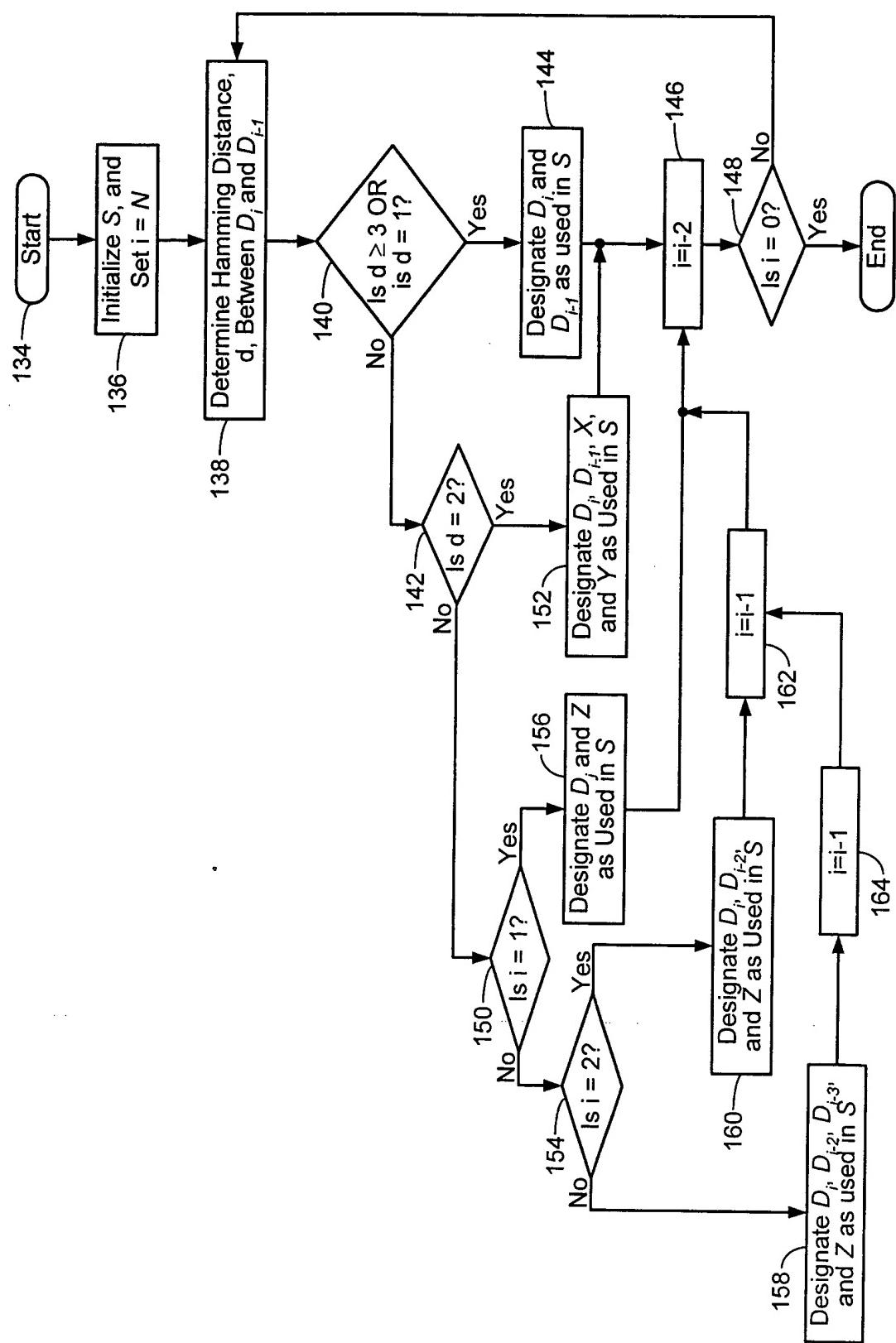
**FIG. 7A**

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**FIG. 7B**

Title: METHOD AND APPARATUS FOR GENERATING A SEED  
SET IN A DATA DEPENDENT SELECTOR

Inventors: Yu, Zhan  
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Relationship	Symbols Designated as Used	Amount	Min. Hamming Distance	Min. Hamming Weight	Max. Sequence Size
$d(D_i, D_{i-1}) \geq 3$	$D_i, \overline{D}_i, D_{i-1}, \overline{D}_{i-1}$	4	{1,2} or {2,1}	15.0%	
$d(D_i, D_{i-1}) = 2$ (where $d(X, D_i) = d(X, D_{i-1}) = 1$ and $d(Y, D_i) = d(Y, D_{i-1}) = 1$ )	$D_i, \overline{D}_i, D_{i-1}, \overline{D}_{i-1}, X, Y$	6	{1,3} or {3,1}	20.0%	219
$d(D_i, D_{i-1}) = 1$	$D_i, \overline{D}_i, D_{i-1}, \overline{D}_{i-1}$	4	{1,2} or {2,1}	15.0%	
$D_i = D_{i-1}$	$D_i, \overline{D}_i, D_{i-2}, \overline{D}_{i-2}, Z$ (where $d(Z, D_i) = 1$ )	14	{2,2,1}	16.67%	

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FIG. 8A

Relationship	Symbols Designated as Used	Amount	Min. Hamming Distance	Min. Hamming Weight	Max. Sequence Size
$d(D_i, D_{i-1}) \geq 3$	$D_i, \overline{D}_i, D_{i-1}, \overline{D}_{i-1}$	4	{1,2} or {2,1}	15.0%	
$d(D_i, D_{i-1}) = 2$ (where $d(X, D_i) = d(X, D_{i-1}) = 1$ and $d(Y, D_i) = d(Y, D_{i-1}) = 1$ )	$D_i, \overline{D}_i, D_{i-1}, \overline{D}_{i-1}, X, Y$	6	{1,3} or {3,1}	20.0%	256
$d(D_i, D_{i-1}) = 1$	$D_i, \overline{D}_i, D_{i-1}, \overline{D}_{i-1}$	4	{1,2} or {2,1}	15.0%	
$D_i = D_{i-1}$	$D_i, \overline{D}_i, D_{i-2}, \overline{D}_{i-2}, D_{i-3}, \overline{D}_{i-3}, Z$ (where $d(Z, D_i) = 1$ )	16	{2,2,1,1}	15.0%	

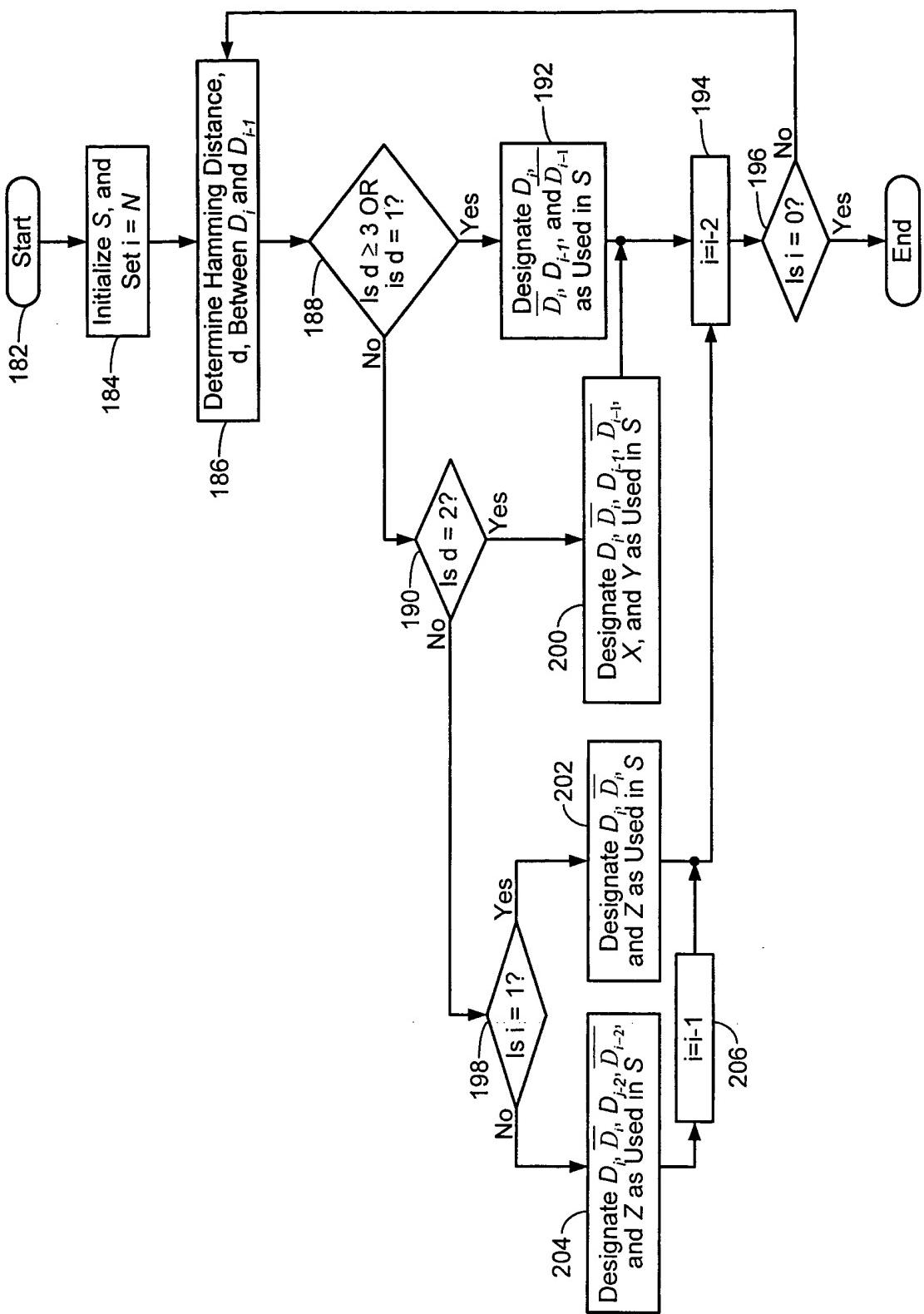
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FIG. 8B

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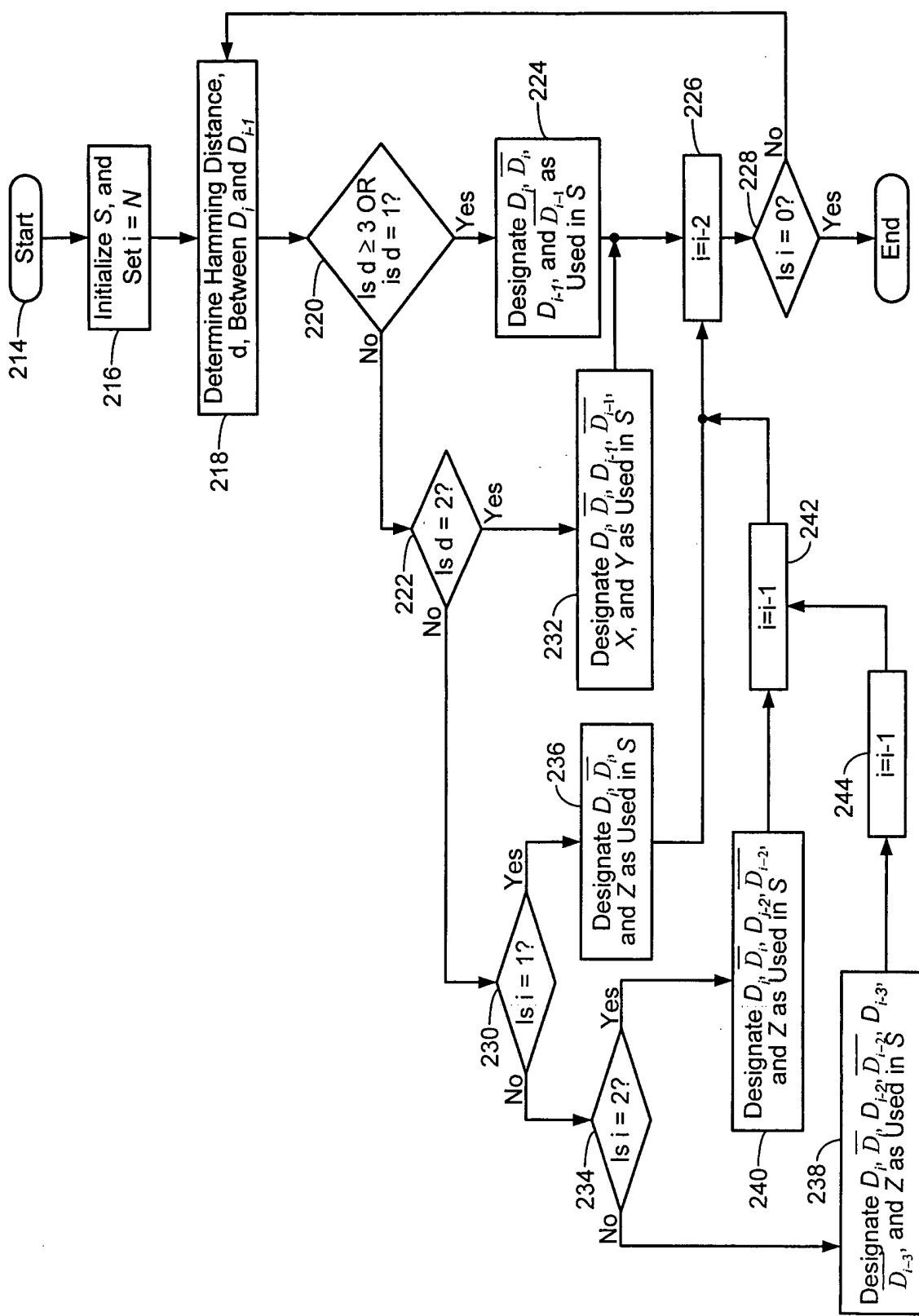
**FIG. 9A**

Title: METHOD AND APPARATUS FOR GENERATING A SEED SET IN A DATA DEPENDENT SELECTOR

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**FIG. 9B**